

Contents Volume 6 (1987)

- Abdel-Raouf, M.A.: On the existence of arbitrary four-body (or quasi-four-body) molecules 345
- Ahmad, S.A., Rao, Pushpa. M., Saksena, G.D.: Determination of Crossed-Second-Order Field Shift in 6F and 6F Terms of $4f^6(^7F)6s$ Configuration of Sm^+ 227
- Alonso, J.A., see Balbás, L.C., et al. 219
- Ansbacher, W., see Pinnington, E.H., et al. 241
- Aumayr, F., Lakits, G., Winter, H.: Electron Capture and Target Excitation in Slow Ion-Alkali Atom Collisions. A Systematic Study 145
- Aynacioglu, A.S., Oppen, G. von, Müller, R.: Proton-Impact Excitation of HeI Triplet Levels 155
- Baird, P.E.G., see Kloch, R., et al. 315
- Balbás, L.C., Alonso, J.A., Borstel, G.: A Non Local Density Functional Calculation of the Diamagnetic Susceptibilities and Other Electronic Properties of Noble Gases and Closed-Shell Ions 219
- Baudon, J., see Robert, J., et al. 279
- Baumann, M., Braun, M., Maier, J.: Configuration Interaction in the $6snd^1D_2$ and $6sns^1S_0$ States of Yb Probed by Lifetime Measurements 275
- Bergeron, H., Valance, A.: Non local potential model for atomic barium 309
- Blümel, R., Smilansky, U.: Microwave Ionization of Highly Excited Hydrogen Atoms 83
- Bočvarski, V., see Robert, J., et al. 279
- Borstel, G., see Balbás, L.C., et al. 219
- Boshier, M.G., see Kloch, R., et al. 315
- Braun, M., see Baumann, M., et al. 275
- Brodzinski, T., Kronfeldt, H.-D., Winkler, R.: J-dependence of the isotope shift in $\text{Eu I } 4f^7 5d 6s(a^6D)$ (Short Note) 363
- Bukow, H.H., see Sobotka, B., et al. 319
- Buttler, H. v., see Sobotka, B., et al. 319
- Carlsson, J., Dönszelmann, A., Lundberg, H., Persson, A., Sturesson, L., Svanberg, S.: Natural Radiative Lifetimes in the $^2S_{1/2}$ and $^2D_{3/2,5/2}$ Sequences of Neutral Copper 125
- Castro, E.A., see Glossman, M.D. 81
- Cleff, B., see Frekers, R., et al. 131
- Darsey, J.A., see Rao, B.K., et al. 17
- Decker, R., Pilkuhn, H., Schlageter, A.: Stationary Perturbation Theory for Non-Hamiltonian Eigenvalue Equations 1
- Dönszelmann, A., see Carlsson, J., et al. 125
- Dutt, R., Imbo, T., Sukhatme, U.: The $1/N$ Expansion and Nonrelativistic Potential Problems with Several Expansion Parameters — Applications to the Rotating Harmonic Oscillator, Zeeman Effect and Helium-Like Atoms 211
- Fechner, B., Rinkleff, R.-H., Steudel, A.: Radiative Lifetimes of Levels of the Configuration $4f^7(^8S)6s6p$ in Eu I 31
- Felder, P., Keller, B.A., Huber, J.R.: Molecular Beam Study of Methyl Nitrite Photodissociation after Excitation into the Second Absorption Band at 248 and 193 nm 185
- Feldmann, D., Petring, D., Otto, G., Welge, K.H.: Angular Distribution of Photo Electrons from Above-Threshold-Ionization (ATI) of Xenon by 532 nm, 355 nm and 266 nm Radiation 35
- Feldmann, D., Wolff, B., Wemhöner, M., Welge, K.H.: "Above-Threshold-Ionization" of Atomic Hydrogen: Angular Distribution of Photoelectrons (Short Note) 293
- Flad, J., Stoll, H., Preuss, H.: Quantum Chemical Investigations of the Latent Image Formation. I. Modelling the Silver Halide Surface 193
- Flad, J., Stoll, H., Preuss, H.: Quantum Chemical Investigations of the Latent Image Formation. II. Adsorption of Ag^+ and Ag on a (100) Silver Bromide Surface 287
- Focke, P.R., see Suarez, S., et al. 55
- Frekers, R., Schulze, H., Wille, U., Cleff, B.: Impact Parameter Dependence of L -Shell Vacancy Production in Slow $\text{Kr}-\text{Kr}$ and $\text{Xe}-\text{Xe}$ Collisions 131
- Friedrich, B., Niedner, G., Noll, M., Toenies, J.P.: $\text{H}^+ + \text{Xe}$ Low-Energy Collisions: Opposite-Phase Oscillations of the Elastic and Charge Transfer Differential Cross Sections 49
- Gerber, J., see Speidel, K.-H., et al. 43
- Glass, R.: Effects of Electron Correlation and Relativistic Effects in X-Ray Diffraction 231
- Glossman, M.D., Castro, E.A.: Approximate Analytical Solution of the Thomas-Fermi Equation for Positive Ions in a Strong Magnetic Field (Short Note) 81
- Goñi, A.R., see Suarez, S., et al. 55
- Hagelberg, F., see Speidel, K.-H., et al. 43
- Hasselkamp, D., Hippler, S., Scharmann, A., Schartner, K.-H.: Electronic Processes Induced by High Energy H^+ , H_2^+ and H_3^+ ions: A Scaling Relation 269
- Heckmann, P.H., see Pinnington, E.H., et al. 241
- Heijmen, B., Liedenbaum, C., Stolte, S., Reuss, J.: High Resolution Measurements of IR Predissociation of C_2H_4 Dimers 199
- Hellmann, H.M., see Pinnington, E.H., et al. 241
- Hertel, I.V., Kelley, M.H., McClelland, J.J.: Analysis of Collisional Alignment and Orientation Studied by Scattering of Spin-Polarized Electrons from Laser Excited Atoms 163
- Hippler, S., see Hasselkamp, D., et al. 269
- Holle, A., see Main, J., et al. 295
- Huber, J.R., see Felder, P., et al. 185
- Imbo, T., see Dutt, R., et al. 211
- Karle, W., see Speidel, K.-H., et al. 43
- Keller, B.A., see Felder, P., et al. 185
- Kelley, M.H., see Hertel, I.V., et al. 163
- Kestner, N.R., see Rao, B.K., et al. 17
- Khare, A., Kumar, V., Thareja, R.K.: On Studies of Spontaneously Emitted Cd I and Cd II Lasing Transitions 67
- Klar, H.: Stability of Equilibrium-Top Atoms 107
- Kloch, R., Baird, P.E.G., Boshier, M.G., Macpherson, M.J., Palmer, C.W.P., Stacey, D.N., Stacey, V.: Isotope shifts in $\lambda 326.1$ nm of Cd I 315
- Knopp, M., see Speidel, K.-H., et al. 43
- Kravtsov, A.V., Popov, N.P.: Muon Transfer from the Excited Mesic Hydrogen in the Metastable $2s$ -State to Helium Nuclei 61
- Kronfeldt, H.-D., see Brodzinski, T., et al. 363
- Kumar, V., see Khare, A., et al. 67
- Kwela, J.: Anisotropy in Radiative Decay of Ca I in an Electric Field 25
- Lakits, G., see Aumayr, F., et al. 145
- Liedenbaum, C., see Heijmen, B., et al. 199
- Lundberg, H., see Carlsson, J., et al. 125
- Macpherson, M.J., see Kloch, R., et al. 315
- Maier, J., see Baumann, M., et al. 275
- Main, J., Holle, A., Wiebusch, G., Welge, K.H.: Semiclassical quantization of three-dimensional quasi-Landau resonances under strong-field mixing 295
- Malveti, M., Pilkuhn, H.: Spinless Particles in Atoms 119
- Märk, T.D., see Stamatovic, A., et al. 351
- Matzdorf, R., Soff, G., Mehler, G.: Elastic Collisions of Heavy Ions at Intermediate Energies 5
- Mayr, M., see Speidel, K.-H., et al. 43
- McClelland, J.J., see Hertel, I.V., et al. 163
- Meckbach, W., see Suarez, S., et al. 55
- Mehler, G., see Matzdorf, R., et al. 5
- Möller, G., see Pinnington, E.H., et al. 241
- Müller, R., see Aynacioglu, A.S., et al. 155
- Niedner, G., see Friedrich, B., et al. 49
- Noll, M., see Friedrich, B., et al. 49
- Ohno, M.: g -Hartree Ab-Initio Calculation of Atomic Ionization Energy of Small Atoms 13

- Ohno, M.: Green's function calculation of ionization energies of Ca ($Z=20$), Kr ($Z=36$), Sr ($Z=38$) and Yb ($Z=70$) 303
- Oppen, G. von, see Aynacioglu, A.S., et al. 155
- Otto, G., see Feldmann, D., et al. 35
- Palmer, C.W.P., see Kloch, R., et al. 315
- Persson, A., see Carlsson, J., et al. 125
- Petring, D., see Feldmann, D., et al. 35
- Pilkuhn, H., see Decker, R., et al. 1
- Pilkuhn, H., see Malvetti, M. 119
- Pinnington, E.H., Ansbacher, W., Träbert, E., Heckmann, P.H., Hellmann, H.M., Möller, G.: Beam-Foil Lifetime Study of the $n=3$ Complex in Al-Like Ti^{9+} 241
- Popov, N.P., see Kravtsov, A.V. 61
- Preuss, H., see Flad, J., et al. 193
- Preuss, H., see Flad, J., et al. 287
- Rao, B.K., Kestner, N.R., Darsey, J.A.: Inter-ring Rotational Potential of Biphenyl and its Effect on Poly(p-phenylene) 17
- Rao, Pushpa M, see Ahmad, S.A., et al. 227
- Reinhardt, J., see Robert, J., et al. 279
- Reuss, J., see Heijmen, B., et al. 199
- Rinkleff, R.-H., see Fechner, B., et al. 31
- Robert, J., Bočvarski, V., Stern, B., Reinhardt, J., Baudon, J.: Thermal Energy Collisions Between Metastable $Ne^*(2p^5 3s, ^3P_{0,2})$ and $H_2(X, ^1\Sigma_g^+)$. I. Experiment 279
- Saksena, G.D., see Ahmad, S.A., et al. 227
- Scharmann, A., see Hasselkamp, D., et al. 269
- Schartner, K.-H., see Hasselkamp, D., et al. 269
- Scheier, P., see Stamatovic, A., et al. 351
- Schlageter, A., see Decker, R., et al. 1
- Schlüter, D.: Gaunt Factors for Free-Free Transitions in the Fields of the First Ions of the Rare Gases, Calculated in the Scaled Thomas-Fermi Approximation 249
- Schnizer, B., see Ziegelbecker, R.Ch. 327
- Schulze, H., see Frekers, R., et al. 131
- Shakeshaft, R., see Tang, X. 113
- Simonis, H.-J., see Speidel, K.-H., et al. 43
- Smilansky, U., see Blümel, R. 83
- Sobotka, B., Bukow, H.H., Buttler, H. v.: Investigation of the spectra O II and O III in the VUV with the beam-foil technique 319
- Soff, G., see Matzdorf, R., et al. 5
- Speidel, K.-H., Knopp, M., Karle, W., Mayr, M., Hagelberg, F., Simonis, H.-J., Gerber, J., Tandon, P.N.: Transient K -Shell Hyperfine Fields and Deduced Polarizations for Single-Electron C and O Ions in Different Ferromagnets 43
- Stacey, D.N., see Kloch, R., et al. 315
- Stacey, V., see Kloch, R., et al. 315
- Stamatovic, A., Scheier, P., Märk, T.D.: Electron attachment to SO_2 clusters 351
- Stern, B., see Robert, J., et al. 279
- Steudel, A., see Fechner, B., et al. 31
- Stoll, H., see Flad, J., et al. 193
- Stoll, H., see Flad, J., et al. 287
- Stolte, S., see Heijmen, B., et al. 199
- Sturesson, L., see Carlsson, J., et al. 125
- Suarez, S., Goñi, A.R., Meckbach, W., Focke, P.R.: Do Solid Surface Potential Barriers Retard Convoy Peak Electrons? 55
- Sukhatme, U., see Dutt, R., et al. 211
- Svanberg, S., see Carlsson, J., et al. 125
- Tandon, P.N., see Speidel, K.-H., et al. 43
- Tang, X.: Coupling Between Autoionizing States in Atomic Strontium 255
- Tang, X., Shakeshaft, R.: A Note on the Solution of the Schroedinger Equation in Momentum Space 113
- Thareja, R.K., see Khare, A., et al. 67
- Toennies, J.P., see Friedrich, B., et al. 49
- Träbert, E., see Pinnington, E.H., et al. 241
- Valance, A., see Bergeron, H. 309
- Wagué, A.: Application of the diagonalization approximation to the $n=3$ resonant photoionization of helium-like systems 337
- Weber, H.G.: Inversion of Polarization in Laser-Excited NO_2 73
- Welge, K.H., see Feldmann, D., et al. 35
- Welge, K.H., see Feldmann, D., et al. 293
- Welge, K.H., see Main, J., et al. 295
- Wernhöner, M., see Feldmann, D., et al. 293
- Wiebusch, G., see Main, J., et al. 295
- Wille, U., see Frekers, R., et al. 131
- Winkler, R., see Brodzinski, T., et al. 363
- Winter, H., see Aumayr, F., et al. 145
- Wolff, B., see Feldmann, D., et al. 293
- Ziegelbecker, R.Ch., Schnizer, B.: Calculation of the Stark effect of neon I using jl coupled wave functions 327
- Zimmermann, D.: Calculation of Hyperfine Splitting Constants for s -Electrons: a Clarification 21

Indexed in *Current Contents*

Evaluated and abstracted for PHYS on STN

